

Application No.	Applicant(s)	
09/857,206	LEE ET AL.	
Examiner	Art Unit	
Michael J. Moore, Jr.	2616	
(OR REMAINS) CLOSED in this app or other appropriate communication	olication. If not included will be mailed in due course.	
<u>11/2/06</u> .		•
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of this communication to file a reply of ENT of this application.	complying with the requireme	ents
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 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
 Interview Summary (Paper No./Mail Date IX Examiner's Amendment 	PTO-413), e nent/Comment	
	Michael J. Moore, Jr. Mars on the cover sheet with the component of this application is subject to and MPEP 1308. 11/2/06. Mespectively). Moder 35 U.S.C. § 119(a)-(d) or (f). Deen received. Deen received in Application Nocuments have been received in this received in this received in this application. Mitted. Note the attached EXAMINER' is reason(s) why the oath or declarate the submitted. Mon's Patent Drawing Review (PTO-6) is Amendment / Comment or in the Octahelia on's Patent Drawing Review (PTO-6) is Amendment / Comment or in the Octahelia on's Patent Drawing Review (PTO-6) is Amendment / Comment or in the Octahelia on's Patent Deposit OF BIOLOGICA of Deposit OF BIOLOGICA of Comment of BIOLOGICAL MATERIAL of Paper No./Mail Date of Interview Summary (Paper No./Mail Date	Examiner Michael J. Moore, Jr. 2616 Pars on the cover sheet with the correspondence address-(CR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. GHTS. This application is subject to withdrawal from issue at the and MPEP 1308. 11/2/06. respectively). der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No zuments have been received in this national stage application from this application. Itted. Note the attached EXAMINER'S AMENDMENT or NOTICE is reason(s) why the oath or declaration is deficient. It be submitted. on's Patent Drawing Review (PTO-948) attached Amendment / Comment or in the Office action of 84(c)) should be written on the drawings in the front (not the back) of the header according to 37 CFR 1.121(d). Sit of BIOLOGICAL MATERIAL must be submitted. Note the FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 5, on line 2, in the equation $P_{ADJ} = TPC \times W \times N \times \ddot{y}P$, replace " $\ddot{y}P$ " with -- ΔP --.

In claim 5, on line 3, replace "ÿPmax/ÿP" with --ΔPmax/ΔP--.

In claim 5, on line 4, replace " \ddot{y} P" with -- Δ P--.

In claim 5, on line 5, replace "ÿPmax" with --ΔPmax--.

Allowable Subject Matter

- 2. Claims 1, 2, 4, 5, and 8 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, *Takano* teaches transmit power controller 190a of Figure 10 spoken of on column 13, line 24 – column 14, line 3.

Takano also teaches transmit power controller 190a (channel estimator) of Figure 10 that receives a plurality of TPC bits (power magnitude information detected from received downlink signals) from base station 101 as spoken of on column 13, lines 46-50.

Takano also teaches speed detector 192 (speed estimator) of Figure 10 that detects mobile unit speed as spoken of on column 13, lines 12-16 as well as on column 13, lines 33-37.

Takano also teaches step selector 116 (step adjuster) of Figure 10 that selects an optimal step size based upon the detected speed as spoken of on column 13, lines 33-37.

Takano also teaches accumulator 114 (demodulator) of Figure 10 that stores TPC bits (power control command) received from base station 101 as spoken of on column 13, lines 46-50.

Takano also teaches transmit power controller 190a (power level controller) of Figure 10 that uses speed detector 192 as well as step selector 116 to adjust transmitting power level as spoken of on column 13, lines 28-58.

Takano as well as the other prior art of record fail to teach a measuring means (TPC verifier of Figure 3) that measures a reliability of the extracted power control command (TPC bit), where the power level controller derives a weighting factor from the measured reliability, multiplies the changed power control step size by the derived weighting factor, and then increments or decrements the power level of transmitting signals by the multiplied step size.

Regarding claims **2**, **4**, **and 5**, these claims are further limiting to claim **1** and are thus also allowable over the prior art of record.

Regarding claim **8**, *Takano* teaches transmit power controller 190a of Figure 10 that receives a plurality of TPC bits (power control command from received downlink signals) from base station 101 as spoken of on column 13, lines 46-50.

Takano as well as the other prior art of record fail to teach calculating a reliability of the extracted power control command (value of TPC bit), deriving a weighting factor from the calculated reliability, multiplying a determined power control step size by the derived weighting factor, and then increasing or decreasing power level of transmitting signals by the multiplied power control step size according to the extracted power control command (value of TPC bit).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Moore, Jr. whose telephone number is (571) 272-3168. The examiner can normally be reached on Monday-Friday (8:00am - 4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao can be reached at (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Michael J. Moore, Jr. Examiner
Art Unit 2616

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SEEMA S. RAO 11/27/06
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